

Figure 1

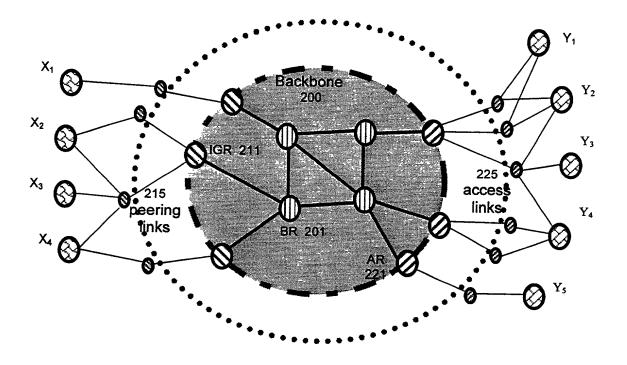


Figure 2

```
For each flow: (input, dest, start, finish, bytes)

dest_prefix = longest_prefix_match(dest, dest_prefix_set);
egress_set = reachability(dest_prefix);
start_bin = [start/width] * width;
finish_bin = [finish/width] * width;
if (start_bin == finish_bin)

volume[input, egress-set, start_bin] += bytes;
else /* Compute volume of traffic for each time_bin */
byte_rate = byutes / (finish - start)

volume[input, egress_set, start_bin] += byte_rate * (start_bin + width - start);
for (time_bin = start_bin + width; time_bin < finish_bin; time_bin += width)

volume[input, egress_set, time_bin] += byte_rate * width;
volume[input, egress_set, finish_bin] += byte_rate * (finish - finish_bin);
Output for each aggregate: (input, egress_set, time_bin, volume)
```

Figure 3

```
For each flow: (input, output, src, dest, start, finish, bytes)

dest_prefix = longest_prefix_match(dest, dest_prefix_set);
egress_set = reachability(dest_prefix);
if (input.type == peer) /* Inbound or (ingress) transit flow */
compute volume[input, egress-set, input, output, time_bin] for each bin;
else /* Outbound or (egress) transit flow */
src_prefix = longest_prefix_match(src, src_access_prefix_set);
if (src has no match)
ingress_set = sendability(src_prefix);
compute volume[ingress_set, egress_set, input, output, time_bin] for each bin;
Output for each aggregate: (ingress_set, egress_set, input, output, time_bin, volume)
```

Figure 4

```
For each aggregate: (ingress_set, egress_set, input, output, time_bin, volume)

For each a in ingress_set

route = Route(a, egress_set);

if (route does not use input and output links)

remove a from ingress_set;

if (ingress_set ≠ Ø)

for each a in ingress_set

dvolume[a, egress_set, time_bin] += volume / size_of(ingress_set);

else

count as a miss;

Output for each demand: (a, egress-set, time_bin, dvolume)
```

Figure 5

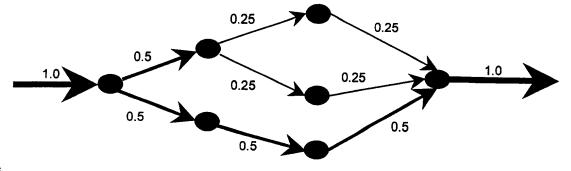


Figure 6

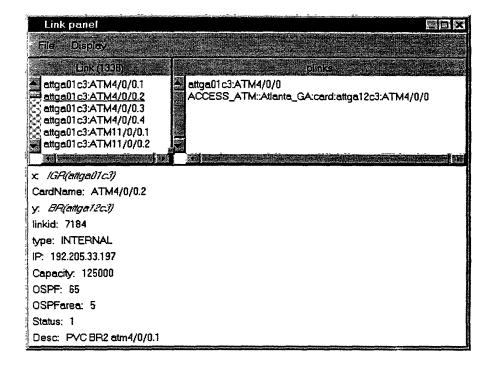


Figure 7

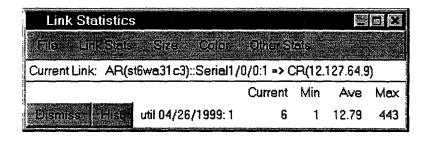


Figure 8

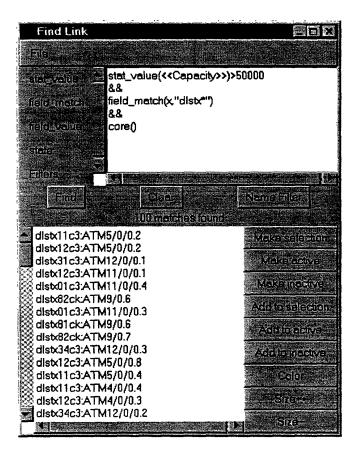


Figure 9

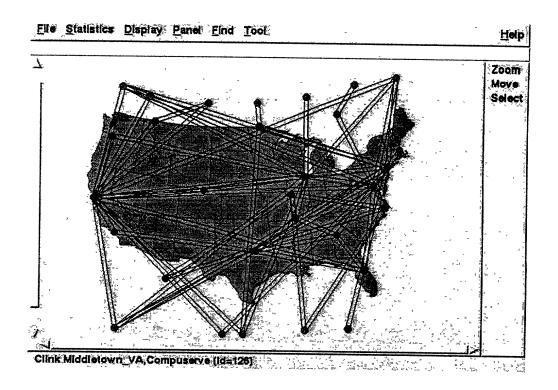


Figure 10

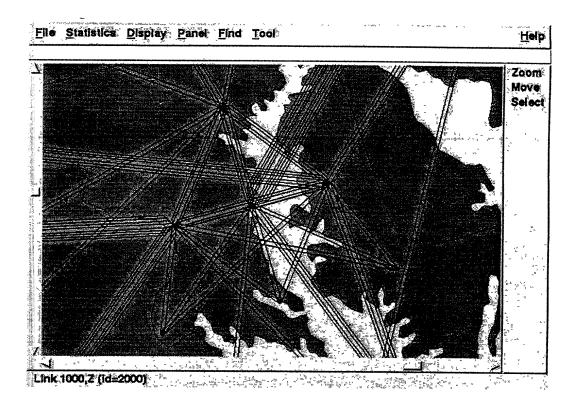


Figure 11